

# Code Review

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How and Why?

# What is code review?

Reading code before it gets merged

- You read your own
- Someone else reads yours

Can be a presentation (boo), in person (yay), asynchronous (yay)

# Why code review?

Find bugs

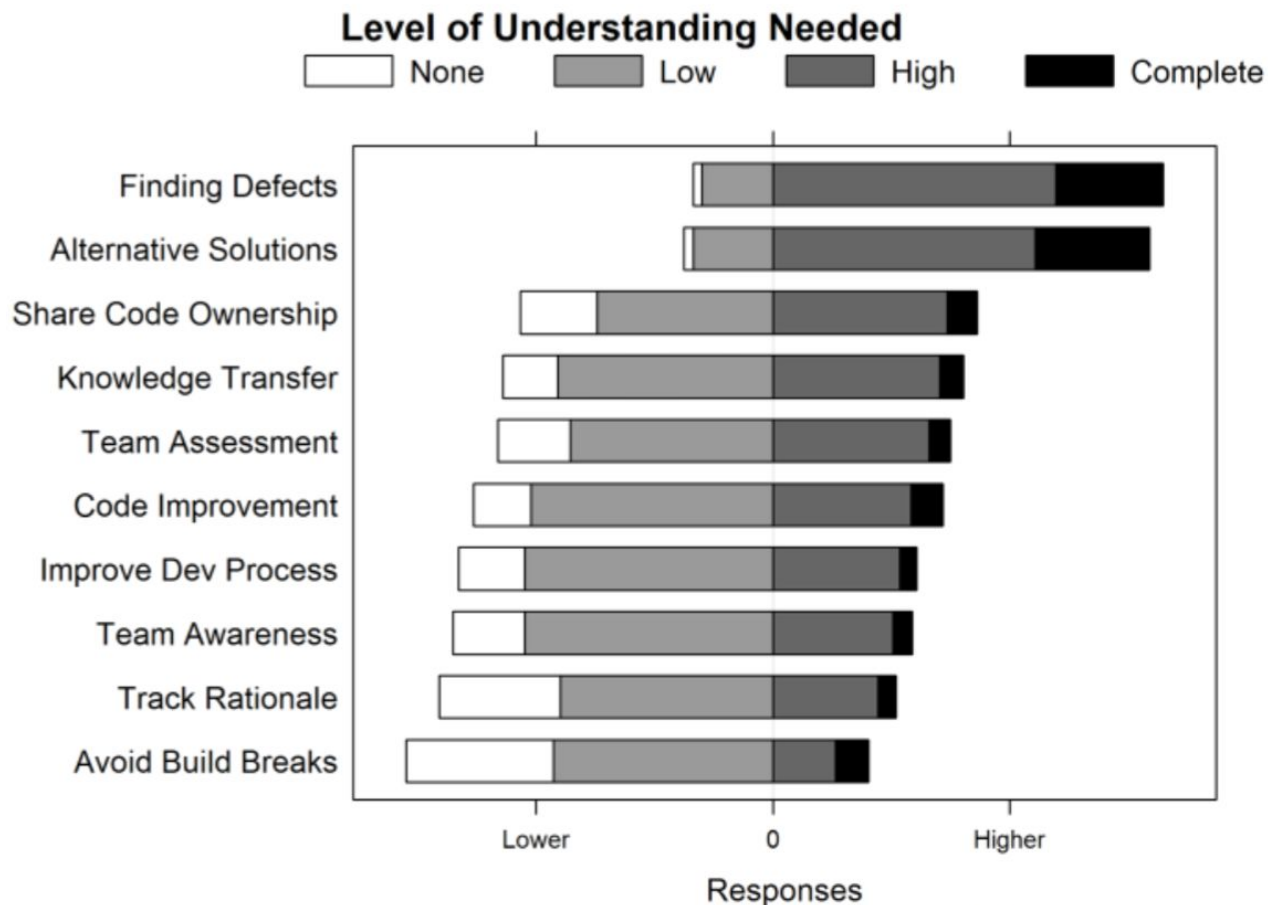
Ensure completeness

Improve code

Improve design

Improve solutions

Learn



*Figure 5. Developers' responses in surveys of the amount of code understanding for code review outcomes.*

# Align review style with phase of implementation

Good times to ask for review are at 20%, 80% and 99% completion:

- 20% = get design feedback. not so tied to implementation that change is hard
- 80% = get detail feedback. make sure details are right
- 99% = spot-check for last-minute critical errors

If author expects 20%-style feedback and reviewer gives 99%-style ... :sadpanda:

# Questions for reviewers to ask themselves

- What kind of feedback is desired?
- What is this trying to do? Why is it trying to do it?
- How would I solve this problem?
- How do we know this implementation solves the problem (testing)?
- How is the design? (4 Rules of Simple Design, SOLID, etc.)
- What should be in this review but is not visible? (minimized diffs, things we forgot to update)

# #protip

Avoid ad hominem code review.

- Ask questions.
- Use “we”, not “you” if discussing what to do. E.g.
  - “Why do we need to do X?” vs “You shouldn’t X”

Avoid nit-picking only on code formatting.

Be explicit about which suggested changes are optional vs required.